Building Energy Code Education-

Circuit Rider Program

Project Team

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- Patti Cale, Energy Services Coordinator, Iowa Association of Municipal Utilities

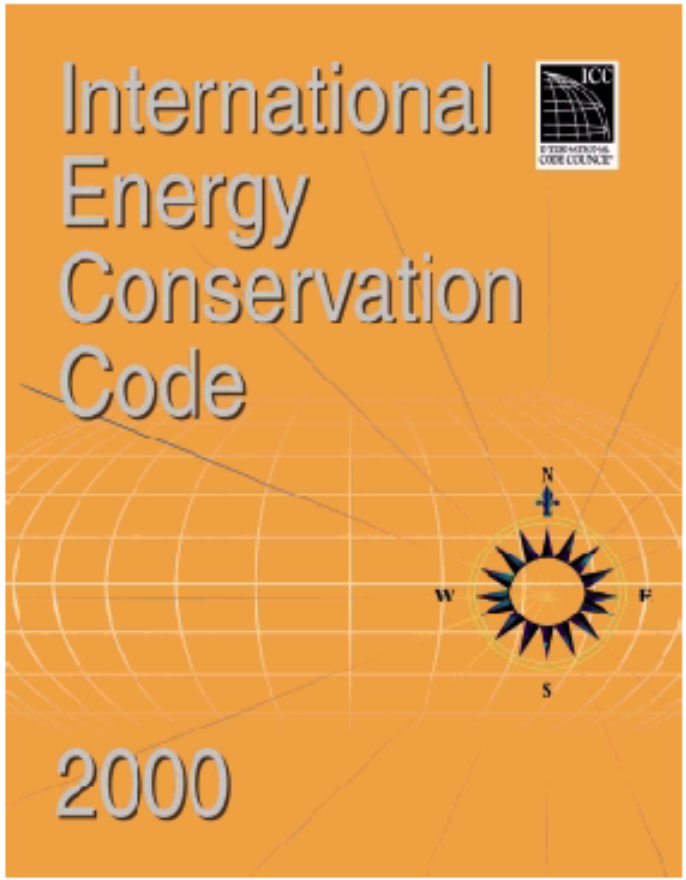
Energy Code Circuit Rider Program

We provide assistance to cities in adopting the International 2000 Energy Code

We provide workshops for Contractors, City Staff, Realtors, Appraisers, and Bankers

We provide inspections and training in energy code inspections

What is the IECC?



A REQUIRED MINIMUM LEVEL OF ENERGY EFFICIENCY IN NEW RESIDENTIAL CONSTRUCTION

ENERGY CODE ADOPTION BENEFITS

- **A Comfortable and Quieter Home**
- **Improved Indoor Air Quality**
- **Quality Construction**
- **Higher Resale Value**
- **Access to Preferred Financing**

MORE BENEFITS

- **Demonstrate compliance with State of Iowa Code requirements**
- **Reduce Utility Bills as Much as 30%**
- **Savings that can go back into the community, not leave Iowa**


Thank You

What is Energy Efficient?

*Tried and true technologies requiring **no** design changes!*

- ***Efficient Envelope***
  Insulation, Tight Construction, Advanced Window
- ***Efficient Distribution***
  Tight/Insulated Ducts or Internal Ducts
- ***Efficient Equipment***
  Heating, Cooling, Hot Water


'02 5 2


'01 11 20

OFFICE OF
BUILDING TECHNOLOGY,
STATE AND COMMUNITY PROGRAMS

2000 International Energy Conservation Code

Using
MEC*check*™

U.S. Department of Energy
Office of Codes and Standards

Produced by the Pacific Northwest National Laboratory

example - MECcheck 3.3 Release 1a CODE: 1995 MEC

File Edit View Options Code Tools Help

Project | Envelope | Mechanical

Ceiling | Skylight | Wall | Window | Door | Basement | Floor | Crawl Wall

- Building
  - Ceiling 1
  - Ceiling 2
  - Wall 1
    - Door 1
    - Window 1
    - Door 2
  - Wall 2
    - Door 3
  - Floor 1
  - Floor 2
  - Floor 3

Create New Above-Grade Wall

	Assembly	Gross Area or Slab Perimeter		Cavity Insulation R-Value	Continuous Insulation R-Value	U-Factor	UA	Depth of Insulation (ft)
1	Flat Ceiling or Scissor Truss	729	ft2	38.0	0.0	0.030	22	
2	Flat Ceiling or Scissor Truss	592	ft2	30.0	0.0	0.035	21	
3	Wood Frame, 16" o.c.	1647	ft2	13.0	6.0	0.061	82	
4	Glass	84	ft2			0.610	51	
5	Vinyl Frame, Double Pane with	204	ft2			0.450	92	
6	Solid	20	ft2			0.540	11	
7	Wood Frame, 16" o.c.	276	ft2	13.0	0.0	0.082	21	
8	Solid	18	ft2			0.350	6	
9	All-Wood Joist/Truss, Over Un	938	ft2	19.0	0.0	0.047	44	
10	All-Wood Joist/Truss, Over Ou	32	ft2	30.0	0.0	0.033	1	
11	Unheated Slab-On-Grade	82	ft		8.0	0.779	64	2.0

Compliance: Passes Max. UA: 467 Your UA: 415 11.1 % Better Than Code

Select the blue-on-white buttons to create a list of envelope components for the building.

Start 12:46 PM


PROTECT YOURSELF!
Clean & Return Tools To Their Proper Place
FIRE EXTINGUISHER

Conclusion

Everyone Benefits

Communities
Home Buyers
Builders/ Contractors
Utility Companies
Banks
Iowa